

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF THE CLAIMS

1. (currently amended) An electronic commerce system for procuring goods/services subject to a chain of custody when transferred from a supplier to a user, comprising:

a user system for procuring the goods by the user comprising:

means for electronically receiving and transmitting user private procurement transactions; and

security means operable only by the user for authenticating electronically said user private procurement transactions comprising orders and confirmations of receipt in a non-repudiable manner to the secure procurement processor;

a supplier system for supplying the goods for procuring by the user comprising:

means for electronically receiving authenticated user private procurement transactions and transmitting supplier private procurement transactions comprising notification of provision of goods/services;

a secure procurement system comprising:

user system communication means for transmitting and receiving the user private procurement transactions with the user system;

supplier system communication means for transmitting and receiving the supplier private procurement transactions with the supplier system;

security means for receiving authentication of said user private procurement transactions and for authenticating electronically said user private procurement transactions comprising orders and confirmations of receipt as the secure procurement system's transactions in a non-repudiatable manner;

a database server for storing said authenticated private procurement transactions and said notifications and for storing a product catalog representing said goods from the supplier available for procuring by a user;

a procurement transaction processor for processing said private procurement transactions transmitted and received between the user and the supplier, wherein said procurement transaction processor includes:

means for performing business rules analysis using the order, notification or confirmation of receipt; and

means for alarming potential instances of diversion or loss of goods/services;

wherein the means for performing business rules analysis and means for alarming are configured to, upon receiving a notification of provision of goods/services at the secure procurement system, initiate a timer for a predetermined period of time within which to receive the confirmation of receipt of the goods/services corresponding to the notification, and when the timer expires, alarm a potential instance of diversion or loss of goods/services and prevent further orders from the user;

a certificate authority for facilitating the authentication electronically of said user private procurement transactions comprising orders and confirmations of receipt in a non-repudiatable manner;

a network connection linking the user system, secure procurement system and certificate authority; and

a supplier network connection linking the supplier system and secure procurement system;

whereby the secure procurement system, in cooperation with the certificate authority, processes and stores said orders, notifications, and confirmations of receipt to provide a verifiable chain of custody for goods/service procured by the user, and the secure procurement system communicates with the user and the certificate authority to authenticate that the user is entitled to order said goods/services.

Claims 2-3 (canceled).

4. (previously presented) The system of claim 1 wherein the notification of provision includes a count of the quantity of the goods/services provided and the confirmation of receipt includes a count of the quantity of the goods/services received and wherein the means for performing business rules analysis and means for alarming are configured to:

Upon receiving the confirmation of receipt at the secure procurement system:

Compare the count from the confirmation of receipt to the count from the corresponding notification;

If there is a discrepancy, alarm a potential instance of diversion or loss of goods/services.

5. (original) The system according to claim 1 wherein the user system security means includes a certificate from the certificate authority for authenticating user to the secure procurement system.

6. (original) The system according to claim 1 wherein the secure procurement system security means includes a certificate from the certificate authority for authenticating the secure procurement system to the user.

7. (original) The system according to claim 1 wherein the certificate authority comprises means for generating encryption/decryption key pairs unique to each user and the secure procurement system to enable encryption/decryption, integrity and authentication of transmitted user private procurement transactions between said user and secure procurement system.

8. (original) The system of claim 1 wherein the supplier system includes means for processing user orders.

9. (original) The system of claim 8 where the supplier system includes means to interface to a legacy supplier order system.

10. (original) The system of claim 1 wherein the supplier system includes a database for storing the user's ship to address for provision of said goods/services to the user and wherein any user ship to address in the user order is ignored.

11. (currently amended) A secure procurement system for procuring goods/services subject to a chain of custody when transferred from a supplier to a user, comprising:

a supplier network connection for connecting the secure procurement system and a supplier system;

a network connection for connecting the secure procurement system to a user system;

a user system communication means for transmitting and receiving user private procurement transactions;

a supplier system communication means for transmitting and receiving supplier private procurement transactions with the supplier system;

security means for receiving authentication of said user private procurement transactions and for authenticating electronically said user private procurement transactions comprising orders and confirmations of receipt as the secure procurement system's transactions in a non-repudiable manner;

a database server for storing said authenticated private procurement transactions and said notifications and for storing a product catalog representing said goods from the supplier available for procuring by a user; and

a procurement transaction processor for processing said private procurement transactions transmitted and received between the user and the supplier, wherein the procurement transaction processor comprises means for performing business rules analysis using the order, notification or confirmation of receipt, and means for alarming potential instances of diversion or loss of goods/services;

wherein the means for performing business rules analysis and means for alarming are configured to, upon receiving a notification of provision of goods/services at the secure procurement system:

initiate a timer for a predetermined period of time within which to receive the confirmation of receipt of the goods/services corresponding to the notification, and when the timer expires, alarm a potential instance of diversion or loss of goods/services and prevent further orders from the user,

whereby the secure procurement system in cooperation with a certificate authority processes and stores said orders, notifications, and confirmations of receipt to provide a verifiable chain of custody for goods/service procured by the user, and the secure procurement system communicates with the user and the certificate authority to authenticate that the user is entitled to order said goods/services.

Claims 12-13 (canceled).

14. (previously presented)The system of claim 11 wherein the notification of provision includes a count of the quantity of the goods/services provided and the confirmation of receipt includes a count of the quantity of the goods/services received and wherein the means for performing business rules analysis and means for alarming are configured to:

Upon receiving the confirmation of receipt at the secure procurement system:

Compare the count from the confirmation of receipt to the count from the corresponding notification;

If there is a discrepancy, alarm a potential instance of diversion or loss of goods/services.

15. (original) The system according to claim 11 wherein the user system security means includes a certificate from the certificate authority for authenticating user to the secure procurement system.

16. (original) The system according to claim 11 wherein the secure procurement system security means further comprises a certificate from the certificate authority for authenticating the secure procurement system to the user.

17. (original) The system according to claim 11 wherein the certificate authority comprises means for generating encryption/decryption key pairs unique to each user and the secure procurement system to enable encryption/decryption, integrity and authentication of transmitted secure user procurement transactions between said user and secure procurement system.

18. (original) The system of claim 1 wherein the goods are chosen from the group of narcotics, controlled drugs and controlled substances.

19. (original) The system of claim 11 wherein the goods are chosen from the group of narcotics, controlled drugs and controlled substances.

20. (original) The system of claim 1 wherein the network connection connects the user system and secure processor system over the Internet.

21. (original) The system of claim 11 wherein the network connection connects the user system and secure processor system over the Internet.

22. (currently amended) A method of procuring goods/services subject to a chain of custody when transferred from a supplier to a user, comprising:

Connecting a user at a user system to a secure procurement system over a network and authenticating the user as an authorized user, the secure procurement system having a supplier catalog of said goods/services available for procuring;

Transmitting from the user system and receiving at the secure procurement system a private order from the user for said goods/services and verifying the user's order in a non-repudiatable manner with a certificate authority, and authenticating that the user is entitled to order said goods/services;

Storing the verified order in a procurement transaction database and transmitting from the secure procurement system and receiving at a supplier system the order over a supplier network;

Providing the goods/services to the user and transmitting from the supplier system and receiving at the secure procurement system a secure notification of the provision;

Storing the notification in the procurement transaction database and transmitting from the secure procurement system and receiving at the user system the notification;

Receiving the goods/service by the user;

Transmitting from the user system and receiving at the secure procurement system a secure confirmation of receipt of the goods/services from the user and verifying the user's receipt in a non-repudiatable manner;

Performing business rules analysis by the secure procurement system using the order, notification or confirmation of receipt wherein the step of performing business rules analysis

comprises the steps of:

initiating a timer, upon receiving a notification of provision of goods/services at the secure procurement system, for a predetermined period of time within which to receive the confirmation of receipt of the goods/services corresponding to the notification, and when the timer expires, alarming a potential instance of diversion or loss and preventing further orders from the user; and

Storing the verified secure receipt in a procurement transaction database and transmitting from the secure procurement system and receiving at a supplier system the receipt.

Claims 23-24 (canceled).

25. (previously presented) The method of claim 22 wherein the notification of provision includes a count of the quantity of the goods/services provided and the confirmation of receipt includes a count of the quantity of the goods/services received and wherein the step of performing business rules analysis comprises the steps of:

Upon receiving the confirmation of receipt at the secure procurement system:

Comparing the count from the confirmation of receipt to the count from the corresponding notification;

If there is a discrepancy, alarming a potential instance of diversion or loss provision of goods/services.

26. (original) The method of claim 22 further including the steps of establishing the user as an authorized user to use the secure procurement system by verifying the user's rights to receive the goods in the supplier catalog with a body regulating those rights.

27. (original) The method of claim 22 wherein the network connecting the user system and secure procurement system is the Internet.

28. (original) The method of claim 22 wherein the supplier network connecting the secure procurement system and the supplier system is a virtual private network.

29. (original) The method of claim 22 further including the step of formatting the secure order and secure confirmation of receipt into ANSI EDI format prior to transmitting to the supplier system.

30. (original) The method of claim 22 wherein the goods/service are provided to the user's address from a shipping address database at the supplier system without regard for any address information in the user order.

31. (original) The method of claim 22 further including the step of transmitting from the secure procurement system and receiving at the user system the notification of provision.

32. (currently amended) A method for procuring goods/services subject to a chain of custody when transferred from a supplier to a user comprising the steps of:

Connecting a secure procurement system to a user system over a network and authenticating a user at the user system as an authorized user, the secure procurement system having a supplier catalog of said goods/services available for procuring;

Receiving at the secure procurement system a secure order from the user for said goods/services, the user's order verified in a non-repudiable manner;

Receiving at the secure procurement system authentication that the user is entitled to order said goods/services;

Storing the verified secure order in a procurement transaction database and transmitting from the secure procurement system to a supplier system the order over a supplier network;

Receiving at the secure procurement systems from the supplier system a private notification of the provision;

Storing the notification in the procurement transaction database and transmitting from the secure procurement system to the user system the notification;

Receiving at the secure procurement system from the user system a private confirmation of receipt of the goods/services from the user, the confirmation of receipt verified in a non-repudiable manner;

Performing business rules analysis by the secure procurement system of the transactions in the procurement transactions database, wherein the step of performing business rules analysis comprises the steps of:

initiating a timer, upon receiving a notification of provision of goods/services at the secure procurement system, for a predetermined period of time within which to receive the confirmation of receipt of the goods/services corresponding to the notification, and when the timer expires, alarming a potential instance of diversion or loss and preventing further orders from the user; and

Storing the verified receipt in a procurement transaction database and transmitting from the secure procurement system to the supplier system the receipt.

Claims 33-34 (canceled).

35. (previously presented) The method of claim 32 wherein the notification of provision includes a count of the quantity of the goods/services provided and the confirmation of receipt includes a count of the quantity of the goods/services received and wherein the step of performing business rules analysis comprises the steps of:

Upon receiving the confirmation of receipt at the secure procurement system:

Comparing the count from the confirmation of receipt to the count from the corresponding notification;

If there is a discrepancy, alarming a potential instance of diversion or loss provision of goods/services.

36. (original) The method of claim 32 further including the steps of establishing the user as an authorized user to use the secure procurement system by verifying the user's rights to receive the goods in the supplier catalog with a body regulating those rights.

37. (original) The method of claim 32 wherein the network connecting the user system and secure procurement system is the Internet.

38. (original) The method of claim 32 wherein the supplier network connecting the secure procurement system and the supplier system is a virtual private network.

39. (original) The method of claim 32 further including the step of formatting the order and confirmation of receipt into ANSI EDI format prior to transmitting to the supplier system.